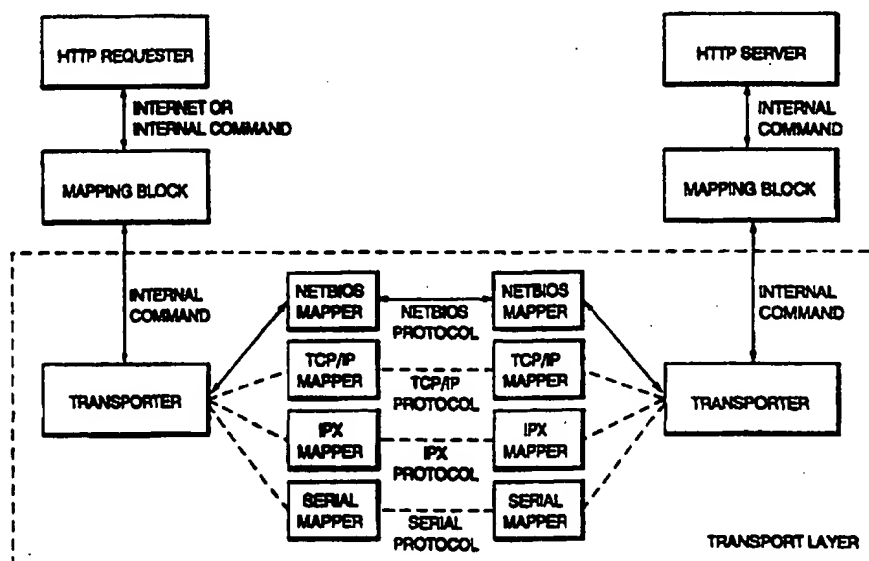




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04L 29/06		A3	(11) International Publication Number: WO 97/18635
			(43) International Publication Date: 22 May 1997 (22.05.97)
(21) International Application Number: PCT/GB96/02317		(74) Agent: BURT, Roger, James; IBM United Kingdom Limited, Intellectual Property Dept., Hursley Park, Winchester, Hampshire SO21 2JN (GB).	
(22) International Filing Date: 20 September 1996 (20.09.96)			
(30) Priority Data: 08/558,627 14 November 1995 (14.11.95) US 08/558,626 14 November 1995 (14.11.95) US 08/558,631 14 November 1995 (14.11.95) US 08/558,628 14 November 1995 (14.11.95) US		(81) Designated States: BR, CA, CN, CZ, HU, JP, KR, PL, RU, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(71) Applicant: INTERNATIONAL BUSINESS MACHINES CORPORATION [US/US]; Armonk, NY 10504 (US).		Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(71) Applicant (for MC only): IBM UNITED KINGDOM LIMITED [GB/GB]; P.O. Box 41, North Harbour, Portsmouth, Hampshire PO6 3AU (GB).			
(72) Inventors: PEERCY, Michael; 10330 N. Foothill Boulevard #A28, Cupertino, CA 95014 (US). PRIMM, Michael; 409 Brook Creek Drive, Apex, NC 27502 (US). REED, Benjamin; 507 Koshland Way, Santa Cruz, CA 95064 (US). WELCH, Steven; 3330 Canada Road, Gilroy, CA 95020 (US). MEDFORD, Mitchell; 109 Strathburgh Lane, Cary, NC 27511 (US).			
(88) Date of publication of the international search report: 7 August 1997 (07.08.97)			

(54) Title: MULTIPROTOCOL COMMUNICATION BETWEEN A GENERIC WEB BROWSER AND SEVERAL ACCESS SERVERS



(57) Abstract

An information handling system enables a client computer device to access information located at a server computer device over a network between the client and server computer devices. The client computer device accesses the server computer device using HyperText Transfer Protocol (HTTP) and presents information received from the server computer device to a user of the client computer device using HyperText Markup Language software. The information handling system includes the network between the client and server computer devices, the network using a network transmission protocol other than HTTP and using a network data format other than HTML, and a transmission protocol converter which converts HTML/HTTP information sent out from or received by at least one of the client computer device and the server computer device, via the network, to the network transmission protocol and the network data format.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AM	Armenia	GB	United Kingdom	MW	Malawi
AT	Austria	GE	Georgia	MX	Mexico
AU	Australia	GN	Guinea	NE	Niger
BB	Barbados	GR	Greece	NL	Netherlands
BE	Belgium	HU	Hungary	NO	Norway
BF	Burkina Faso	IE	Ireland	NZ	New Zealand
BG	Bulgaria	IT	Italy	PL	Poland
BJ	Benin	JP	Japan	PT	Portugal
BR	Brazil	KE	Kenya	RO	Romania
BY	Belarus	KG	Kyrgyzstan	RU	Russian Federation
CA	Canada	KP	Democratic People's Republic of Korea	SD	Sudan
CF	Central African Republic	KR	Republic of Korea	SE	Sweden
CG	Congo	KZ	Kazakhstan	SG	Singapore
CH	Switzerland	LI	Liechtenstein	SI	Slovenia
CI	Côte d'Ivoire	LK	Sri Lanka	SK	Slovakia
CM	Cameroon	LR	Liberia	SN	Senegal
CN	China	LT	Lithuania	SZ	Swaziland
CS	Czechoslovakia	LU	Luxembourg	TD	Chad
CZ	Czech Republic	LV	Latvia	TG	Togo
DE	Germany	MC	Monaco	TJ	Tajikistan
DK	Denmark	MD	Republic of Moldova	TT	Trinidad and Tobago
EE	Estonia	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	UG	Uganda
FI	Finland	MN	Mongolia	US	United States of America
FR	France	MR	Mauritania	UZ	Uzbekistan
GA	Gabon			VN	Viet Nam

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 96/02317

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 524 123 A (IBM) 20 January 1993 see page 3, line 33 - page 4, line 49 see figure 1 see abstract	1-4
A	---	5-9
Y	IEEE TRANSACTIONS ON COMMUNICATION TECHNOLOGY, vol. 34, no. 3, March 1986, NEW YORK US, pages 257-268, XP002032678 P.E.GREEN: "PROTOCOL CONVERSION" see paragraph I see paragraph II ---	7
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

10 June 1997

Date of mailing of the international search report

16.06.97

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Canosa Areste, C

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 96/02317

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>COMMUNICATIONS OF THE ASSOCIATION FOR COMPUTING MACHINERY, vol. 37, no. 8, August 1994, NEW YORK US, pages 76-82, XP000484284 T.BERNERS-LEE: "THE WORLD-WIDE WEB" see the whole document</p> <p>---</p>	1-4,7
A	<p>COMMUNICATIONS OF THE ASSOCIATION FOR COMPUTING MACHINERY, vol. 35, no. 7, July 1992, NEW YORK US, pages 77-98, XP000331522 A.SINHA: "CLIENT-SERVER COMPUTING" see the whole document</p> <p>---</p>	
A	<p>IBM SYSTEMS JOURNAL, vol. 34, no. 3, September 1995, ARMONK, NEW YORK US, pages 472-499, XP000529593 D.POZEFSKY ET AL: "MULTIPROTOCOL TRANSPORT NETWORKING: ELIMINATING APPLICATION DEPENDENCIES ON COMMUNICATIONS PROTOCOLS" see the whole document</p> <p>-----</p>	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 96/02317

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 524123 A	20-01-93	US 5224098 A	29-06-93
		CA 2069710 A,C	18-01-93
		JP 5153185 A	18-06-93
		JP 7038653 B	26-04-95
